## What is claimed is:

- 1. A system for measuring quality of a digital network, comprising:
  - a controller;
  - a test dialer;

a network component remote from said test dialer and said controller, said network component being in communication with said controller and said test dialer over the digital network; and

a testing function resident on said network component, said controller controlling said test dialer and said testing function to determine at least one quality selected from the group consisting of a voice quality, a call completion quality, a load capability quality, and any combinations thereof.

- 2. The system as in claim 1, wherein said network component is selected from the group consisting of a multimedia terminal adapter, a fiber node, an amplifier, a tap, and any combinations thereof.
- 3. The system as in claim 1, wherein said network component is a multimedia terminal adapter positioned at a point-of-service.
- 4. The system as in claim 3, wherein said testing function is configured to determine said at least one quality without outputting an output signal at said point-of-service.
- 5. The system as in claim 3, wherein said multimedia terminal adapter is an embedded adapter or a stand-alone adapter.
- 6. The system as in claim 1, wherein said testing function is configured to receive a call set up signal from said test dialer.

- 7. The system as in claim 1, wherein said testing function is configured to receive an audio signal from said test dialer and send a test packet representative of said audio signal to said controller, said controller being configured to calculate said at least one quality based at least in part on a comparison of said test packet to a reference file.
- 8. The system as in claim 7, wherein said reference file is resident on said controller and/or on said network component.
- 9. The system as in claim 8, wherein said network component receives said reference file from said test dialer.
- 10. The system as in claim 1, wherein said testing function is configured to receive a test packet from said test dialer, convert said test packet into a test audio signal, and send said test audio signal to said controller so that said controller can calculate said at least one quality based in part on a comparison of said test audio signal to a reference file.
- 11. The system as in claim 1, wherein said at least one quality comprises a voice quality selected from the group consisting of a Mean Opinion Score (MOS), a Perceptual Analysis / Measurement System (PAMS), a Perceptual Speech Quality Measurement (PSQM), a Perceptual Evaluation of Speech Quality (PESQ), and any combinations thereof.
- 12. A system for measuring quality on a digital network, comprising: a controller;
  - a multimedia terminal adapter positioned at a point-of-service;
  - a testing function resident on said multimedia terminal adapter; and
- a test dialer, said controller, said multimedia terminal adapter, and said test dialer being in communication over the digital network so that said testing function can receive one or more non-invasive test signals from said test dialer.

- 13. The system as in claim 12, wherein said one or more non-invasive test signals comprises at least one signal selected from the group consisting of a call set up signal, an audio signal, a test audio signal, a load test signal, and any combinations thereof.
- 14. The system as in claim 12, wherein said non-invasive test signal is an audio signal, said testing function converting said audio signal into a test packet and sending said test packet to said controller.
- 15. The system as in claim 14, wherein said controller measures a voice quality based in part on a comparison of said test packet to a reference file.
- 16. The system as in claim 15, wherein said reference file is resident on said controller or on said multimedia terminal adapter.
- 17. The system as in claim 12, wherein said multimedia terminal adapter has a first channel for receiving said non-invasive test signal.
- 18. The system as in claim 17, wherein said multimedia terminal adapter has a separate channel for sending and/or receiving a normal signal while said first channel is in use.
- 19. The system as in claim 12, wherein said non-invasive test signal is a call set up signal.
- 20. The system as in claim 12, wherein said non-invasive test signal is a test audio signal, said testing function receiving a test packet having said test audio signal, retrieving said test audio signal from said test packet, and sending said test audio signal to said controller.
- 21. The system as in claim 20, wherein said controller measures a voice quality based in part on a comparison of said test audio signal to a reference file.

22. A method for measuring quality on a digital network, comprising: sending an audio signal across the digital network to point-of-service equipment having a testing function resident thereon;

generating a test packet at said point-of-service equipment, said test packet being representative of said audio signal as received at said point-of-service equipment; and

calculating a voice quality based at least in part on a comparison of said test packet to a reference file, said voice quality being calculated at a location other than said point-of-service equipment.

- 23. The method as in claim 22, wherein said comparison is performed at either said point-of-service equipment or at said location.
- 24. The method as in claim 22 wherein said test audio signal is non-invasive to said point-of-service equipment.
- 25. A method for testing load capacity of a digital network, comprising controlling a plurality of points-of-service in the digital network to send a load test signal across the digital network to a central controller at a location remote from said plurality of points-of-service.
- 26. The method as in claim 25, wherein said plurality of points-of-service are controlled to send said load test signal simultaneously with one another or within a predetermined period of one another.
- 27. A method for testing load capacity of a digital network, comprising controlling a central controller to send a load test signal across the digital network to each of plurality of points-of-service in the digital network, said central controller being remote from each of said plurality of points-of-service.
- 28. The method as in claim 27, wherein said controller sends said load test signal to each of said plurality of points-of-service simultaneously with one another or within a predetermined period of one another.